
91275

Client:

LumCAT: /

Luminaire: /

Report No:

Test No:

LampCAT: 91275

Lamp flux(lm): -1.0

Number of Lamps: 2

Length(mm): 1200

Phm Type: C

Voltage(V):

Current(A):

Power (W): 23.8000

PF:

Ballast type:

Width(mm): 270

Height(mm): 100

Photometric Results

Lumens(lm): 2870.58

Efficiency(%): 0.00%

Lumens(lm)/Power(W): 120.61

Central intensity(cd): 858.565

Maximum intensity(cd): 858.565

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=133.0

[C90/270]Total=111.4

Field angle(10%Imax): [C0/180]Total=170.8

[C90/270]Total=166.8

Maximum s/h(1/2): C0_180=1.32 C90_270=1.25

Maximum s/h(1/4): C0_180=1.51 C90_270=1.38

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 1.77%

Down flux rate of LUM(%): 98.23%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 71.195%

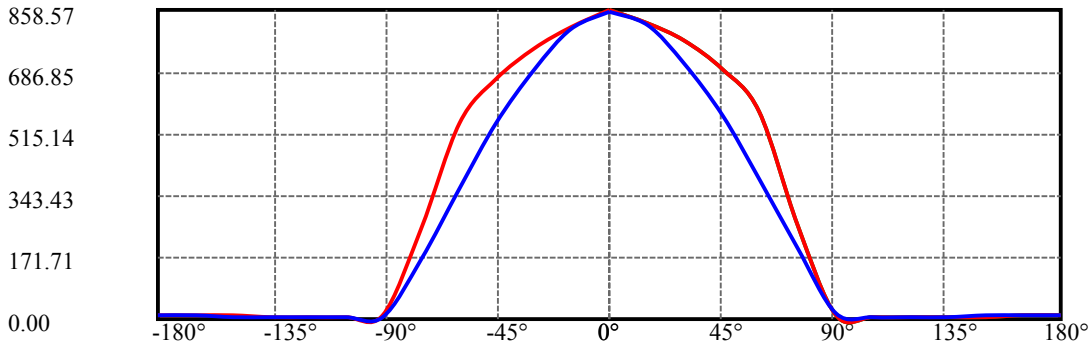
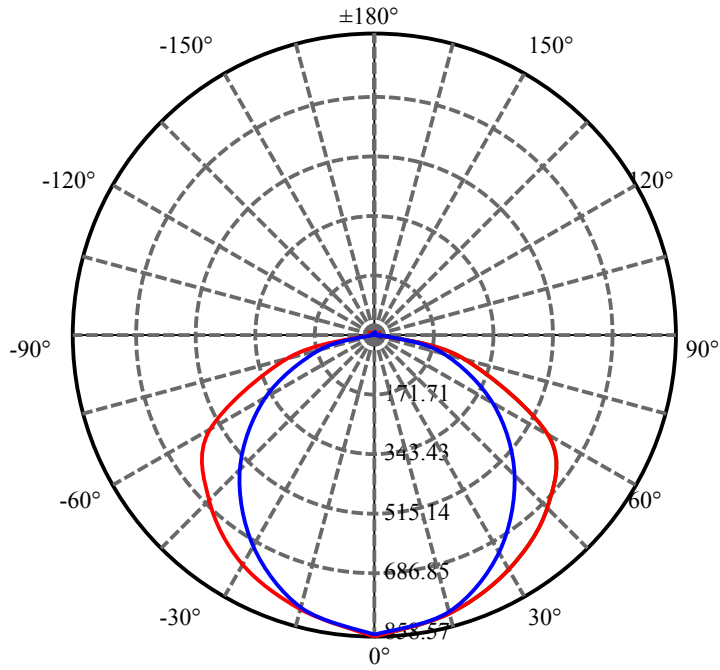
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	856.487	0.000	0	.000%	.000%
15.0	812.848	178.698	178.698	.000%	6.225%
30.0	726.484	483.114	661.811	.000%	23.055%
45.0	617.727	671.107	1332.919	.000%	46.434%
60.0	474.734	710.804	2043.723	.000%	71.195%
75.0	258.182	555.325	2599.047	.000%	90.541%
90.0	13.135	220.609	2819.656	.000%	98.226%
105.0	7.072	16.431	2836.087	.000%	98.798%
120.0	6.824	10.529	2846.616	.000%	99.165%
135.0	7.327	9.207	2855.823	.000%	99.486%
150.0	8.032	7.668	2863.491	.000%	99.753%
165.0	8.614	5.224	2868.715	.000%	99.935%
180.0	8.823	1.867	2870.582	.000%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	661.81	N.A.	23.05%
0-40	661.81	N.A.	23.05%
0-60	2043.72	N.A.	71.20%
0-90	2819.66	N.A.	98.23%
0-120	2846.62	N.A.	99.17%
0-180	2870.58	N.A.	100.00%
60-90	1486.74	N.A.	51.79%
90-120	247.57	N.A.	8.62%
90-130	247.57	N.A.	8.62%
90-150	264.44	N.A.	9.21%
90-180	269.67	N.A.	9.39%
0-66.83	2296.47	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	0.00
10-20	178.70
20-30	483.11
30-40	0.00
40-50	671.11
50-60	710.80
60-70	0.00
70-80	555.32
80-90	220.61
90-100	0.00
100-110	16.43
110-120	10.53
120-130	0.00
130-140	9.21
140-150	7.67
150-160	0.00
160-170	5.22
170-180	0.00



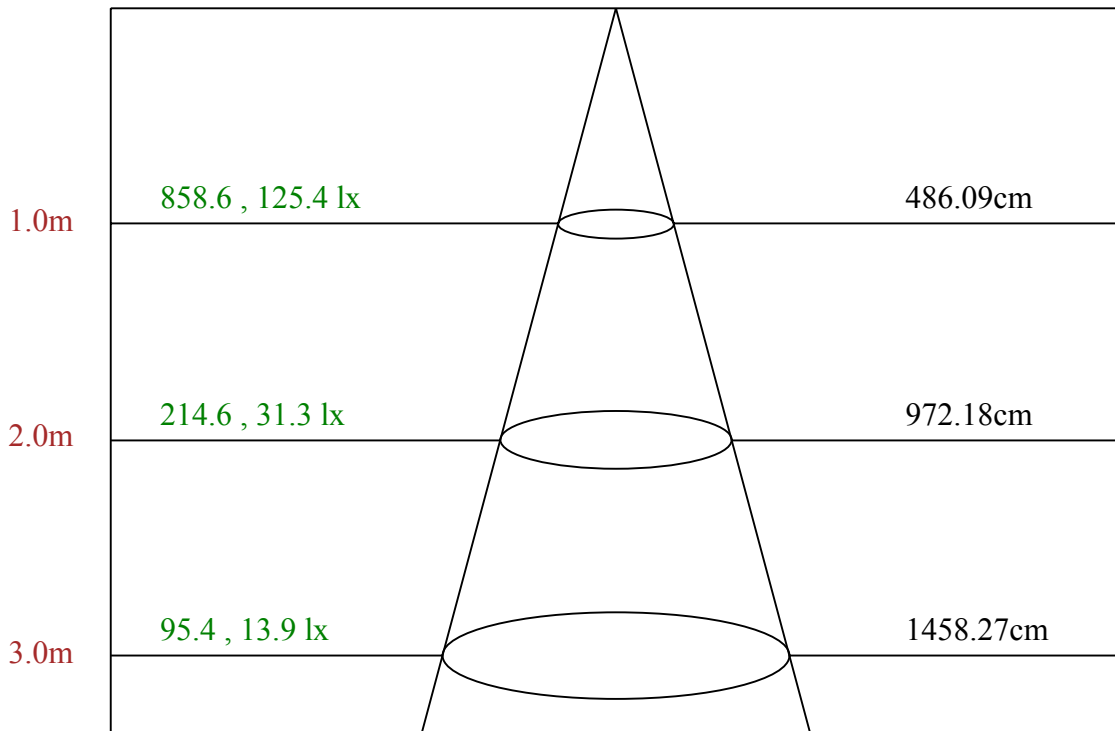
C0(Max): ———

C0/C180: ———

C90/C270: ———

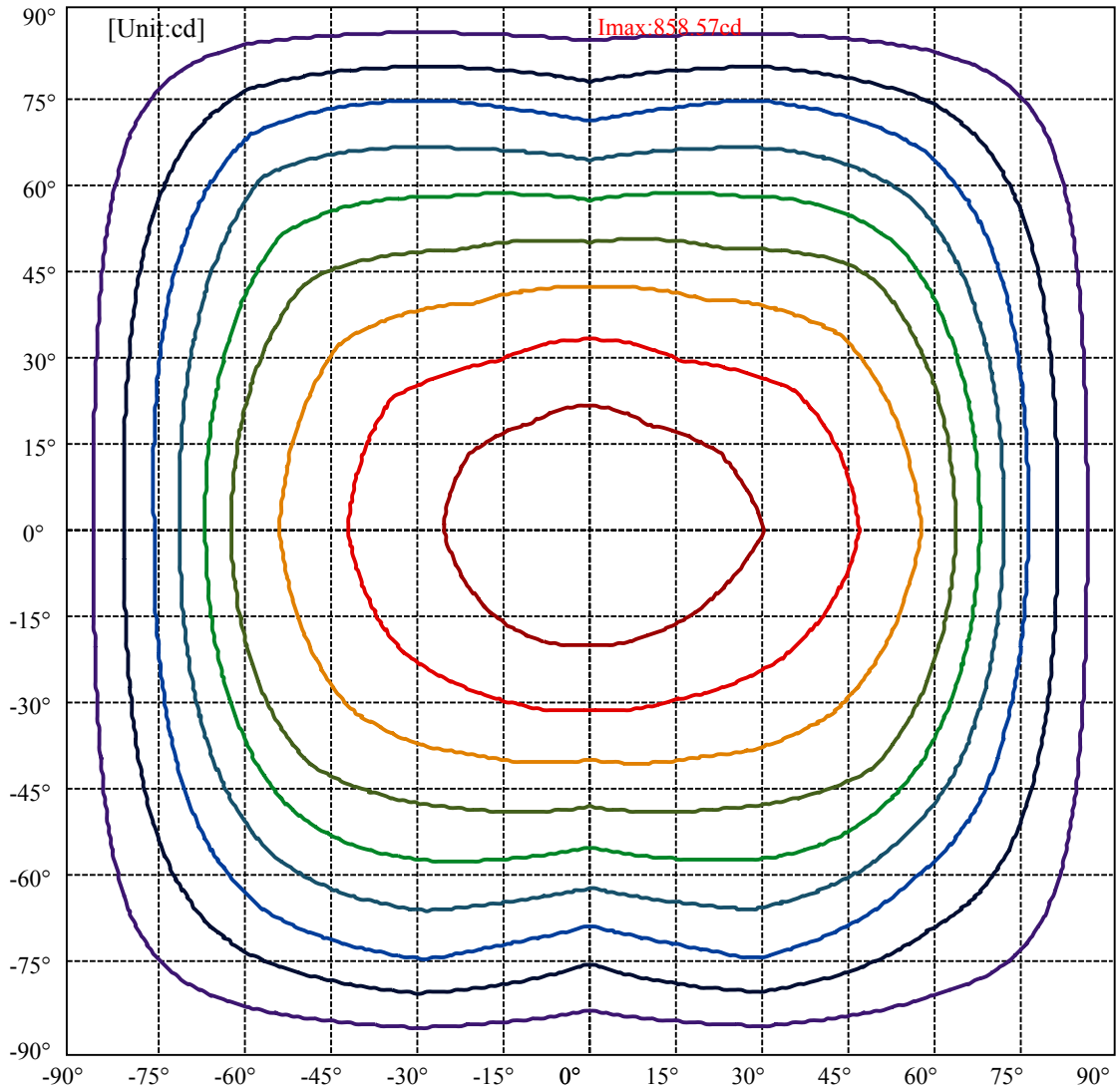
Field angle(10%Imax):C0/180Left:85.3 Right:85.5
:C90/270Left:82.6 Right:84.2

Beam Angle(50%Imax):C0/180Left:66.0 Right:67.0
:C90/270Left:54.6 Right:56.8

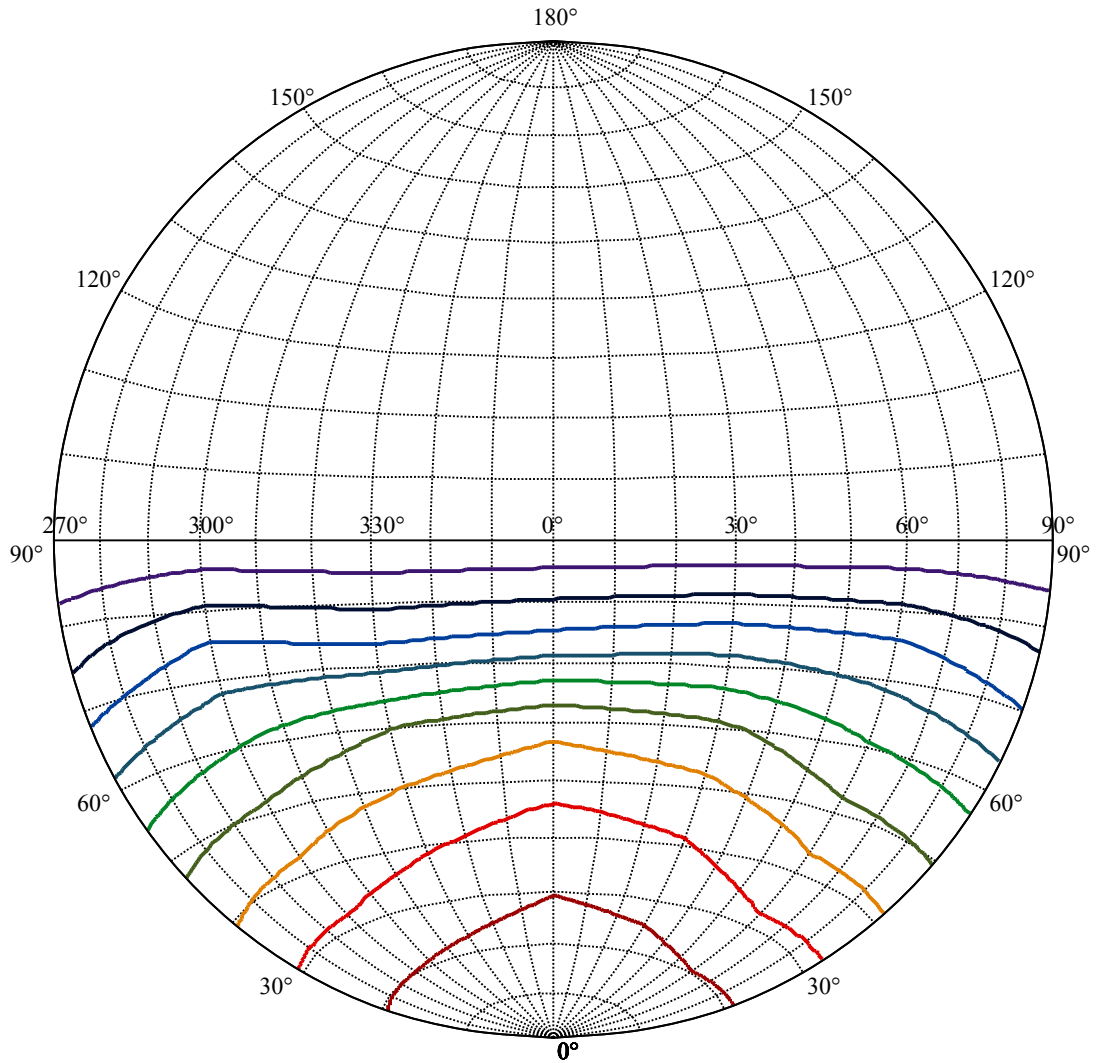


Max , Ave

Beam angle of C0 plane 135.27



- (10%I_{max}) 85.6162
- (20%I_{max}) 171.232
- (30%I_{max}) 256.849
- (40%I_{max}) 342.465
- (50%I_{max}) 428.081
- (60%I_{max}) 513.697
- (70%I_{max}) 599.313
- (80%I_{max}) 684.93
- (90%I_{max}) 770.546












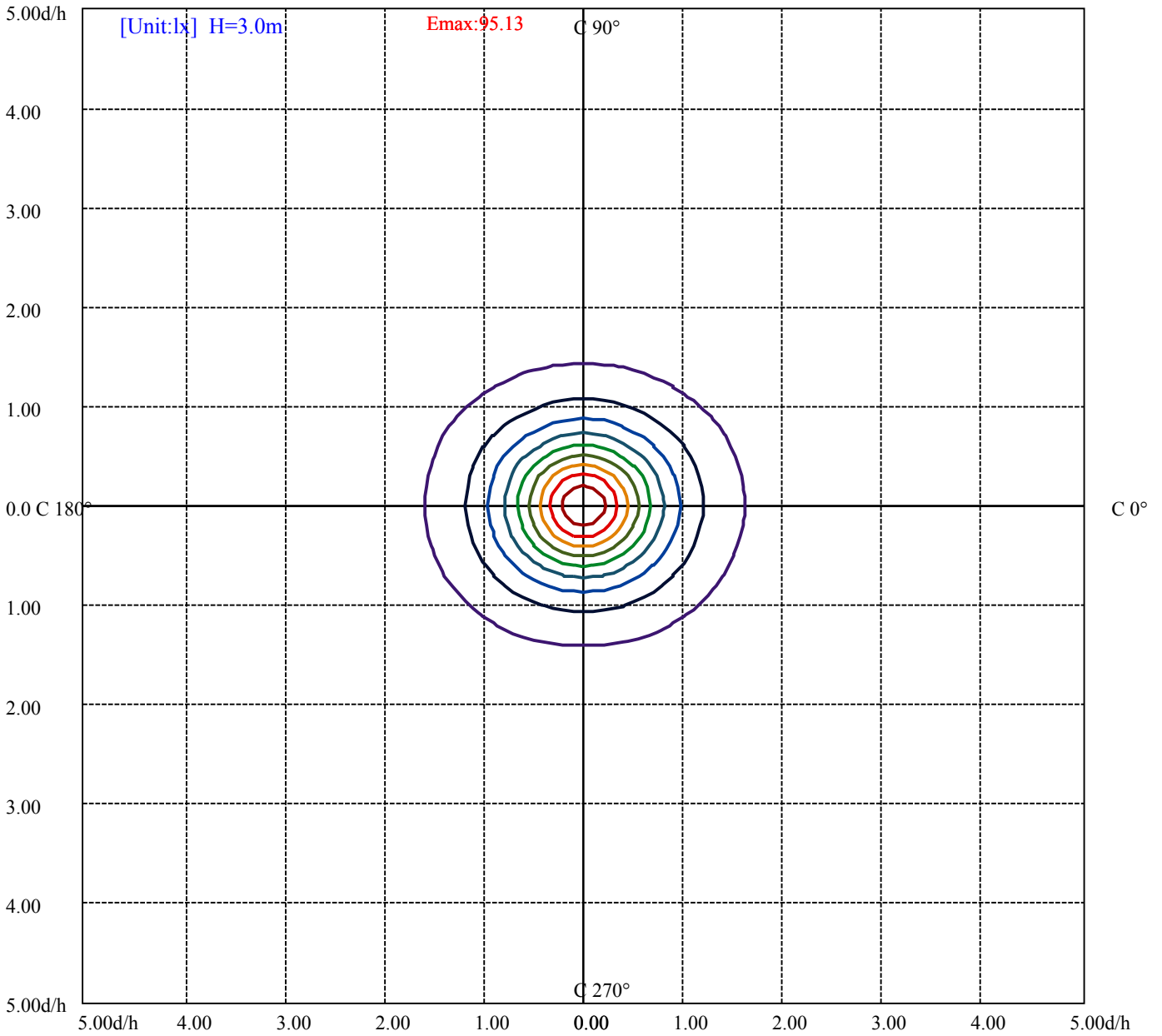
House

[Unit:cd]

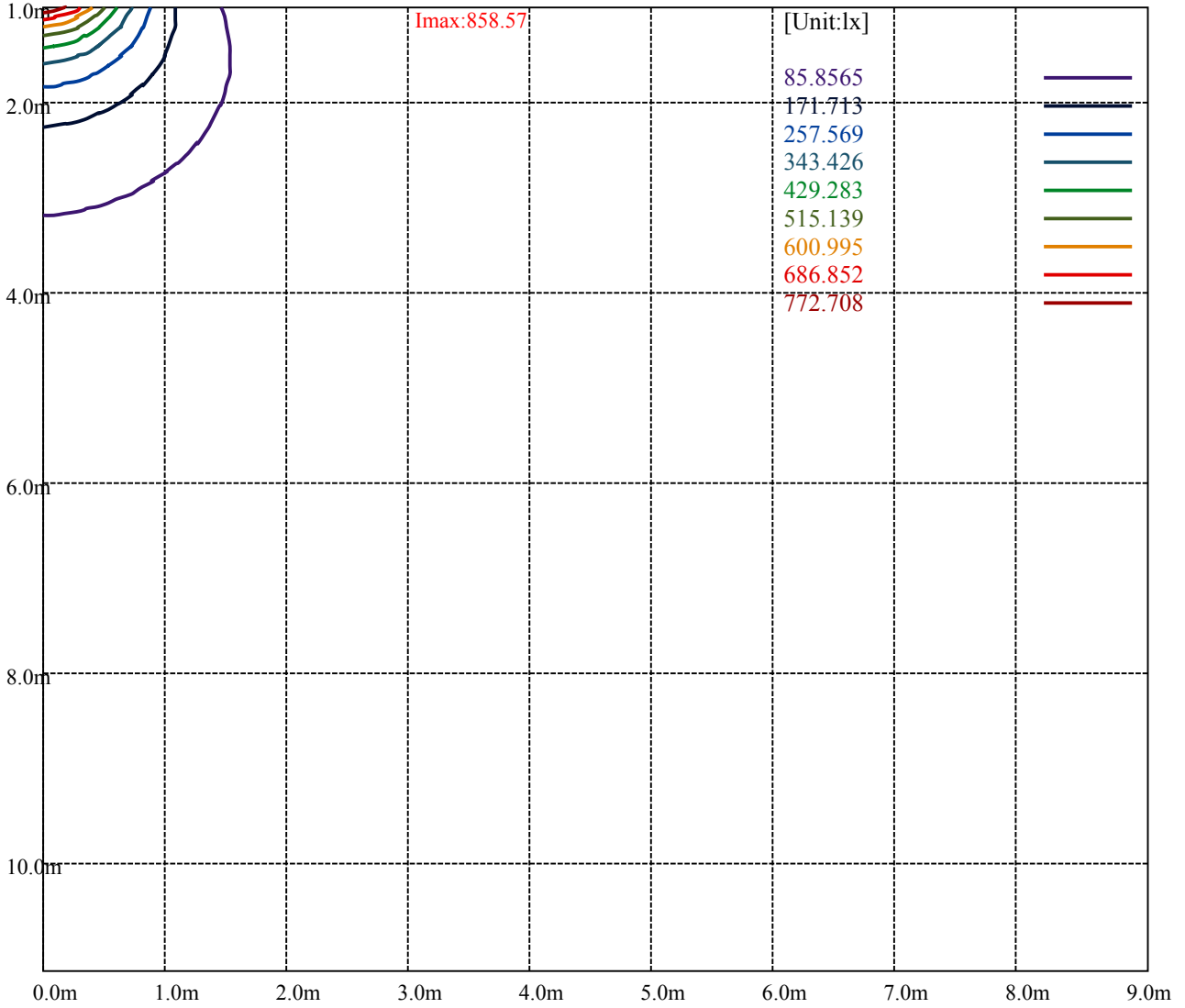
Road

I_{max}:858.57

(10%I _{max}) 85.8565	
(20%I _{max}) 171.713	
(30%I _{max}) 257.569	
(40%I _{max}) 343.426	
(50%I _{max}) 429.283	
(60%I _{max}) 515.139	
(70%I _{max}) 600.995	
(80%I _{max}) 686.852	
(90%I _{max}) 772.708	



(10%Emax) 9.51331	—
(20%Emax) 19.02667	—
(30%Emax) 28.53989	—
(40%Emax) 38.05322	—
(50%Emax) 47.56656	—
(60%Emax) 57.07989	—
(70%Emax) 66.59322	—
(80%Emax) 76.10645	—
(90%Emax) 85.61978	—



Luminance Table

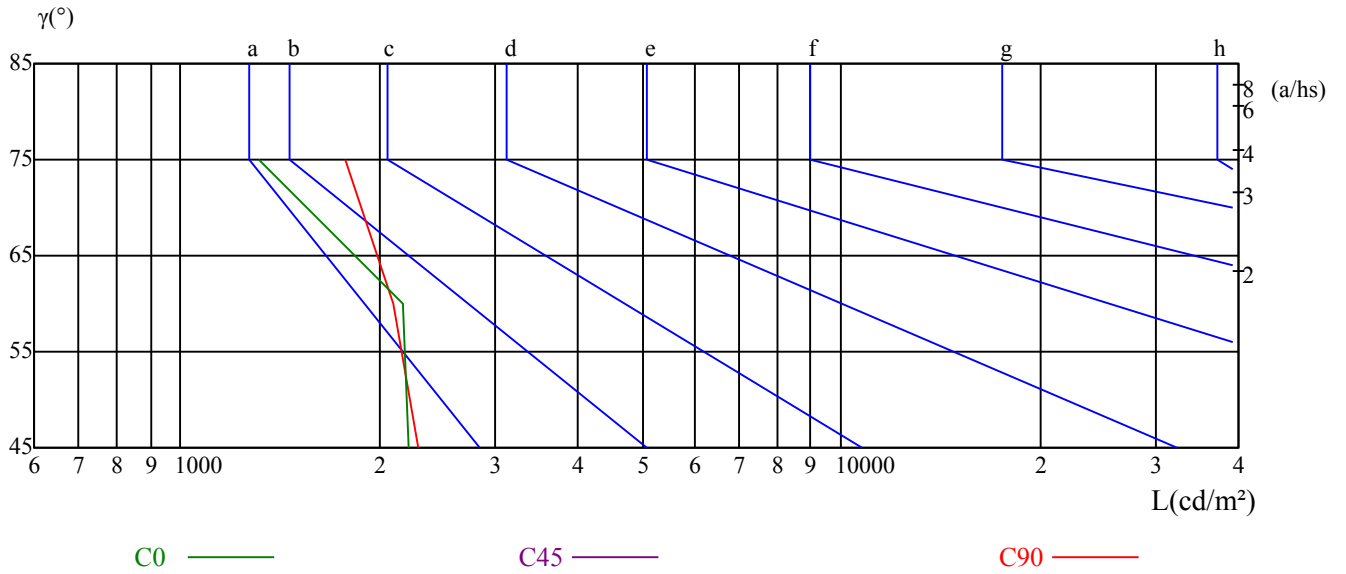
γ	45	50	55	60	65	70	75	80	85
C0	2215	0	0	2165	0	0	1314	0	0
C45	0	0	0	0	0	0	0	0	0
C90	2286	0	0	2101	0	0	1781	0	0

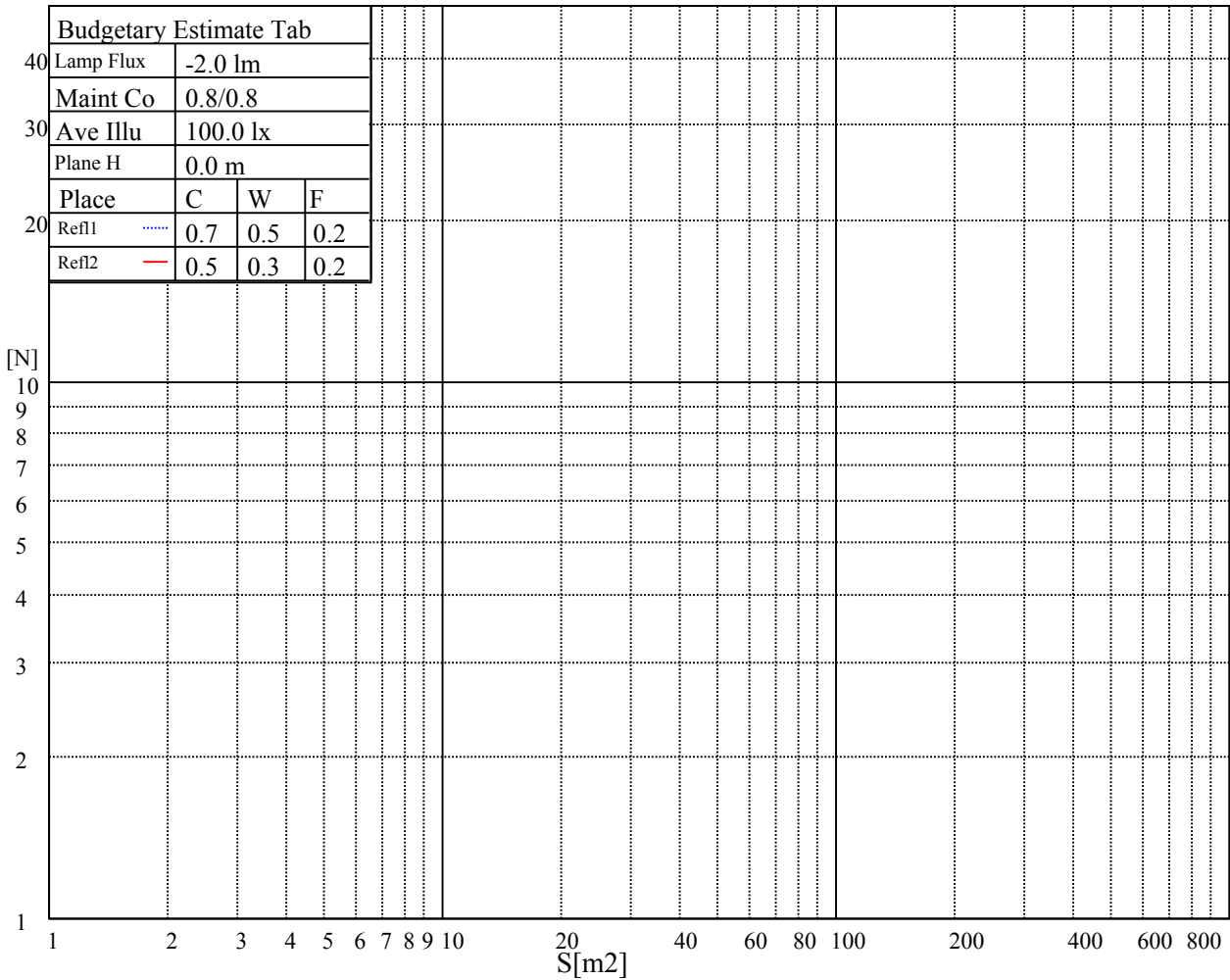
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	3071	2152	0	0	0	0

Glare Table

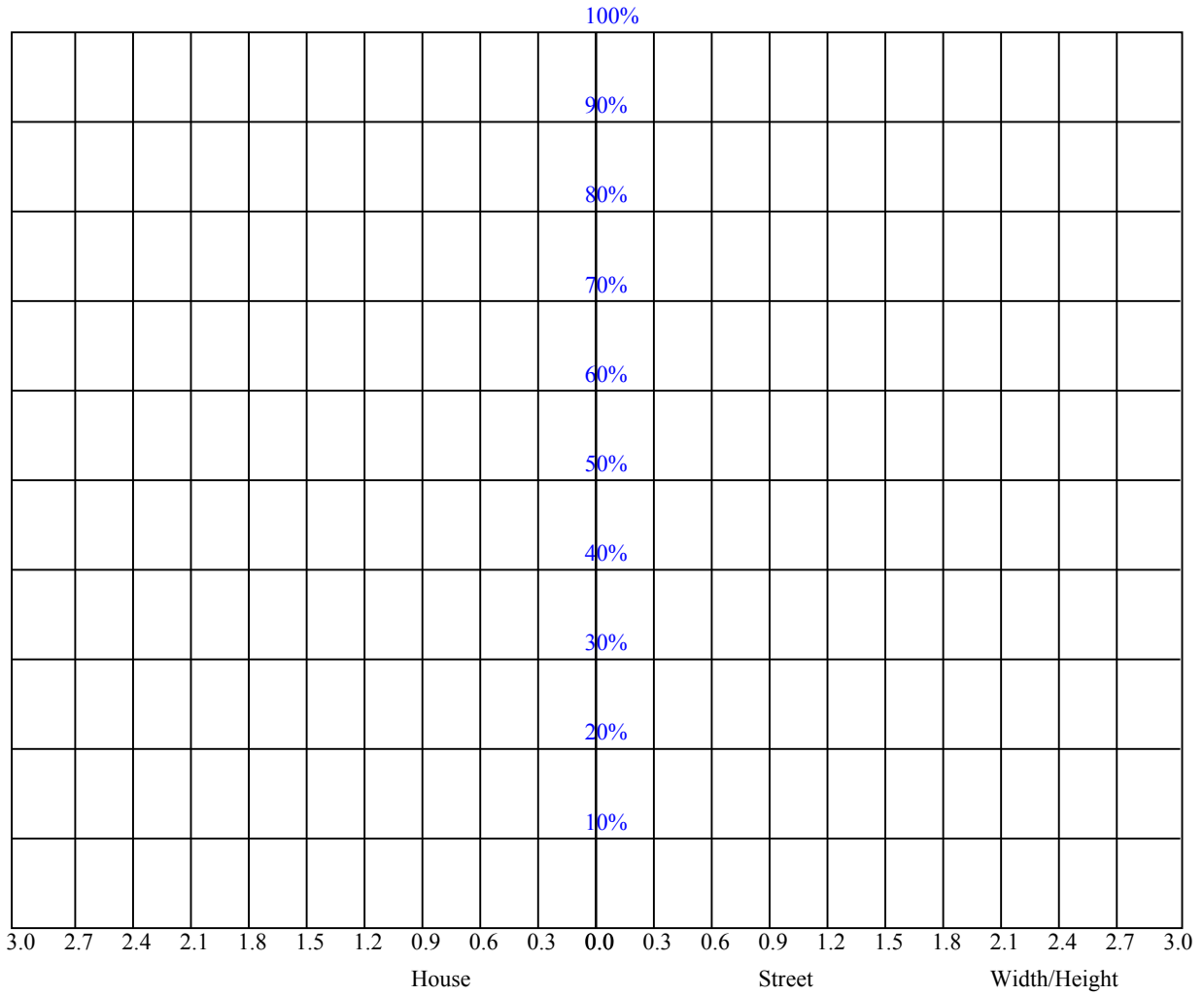
Glare	Quality	Service Values Illuminance(lx)							
		a	b	c	d	e	f	g	h
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve





RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFICIENTS OF UTILIZATION RHOF=20 CU															
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



Intensity data(cd)

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C/γ(°)	0.0	15.0	30.0	45.0	60.0	75.0	90.0	105.0	120.0
0.0	858.57	822.52	770.64	695.27	575.82	262.52	9.07	6.64	6.51
30.0	856.56	818.91	751.23	666.58	534.34	293.22	10.53	7.19	7.15
60.0	855.83	809.34	706.75	587.31	439.03	272.88	17.22	7.73	7.06
90.0	855.02	814.94	711.78	567.33	389.48	195.75	15.02	6.64	6.97
120.0	855.83	811.69	707.92	581.77	437.40	272.69	20.52	7.91	7.15
150.0	857.11	817.74	742.25	656.59	526.26	333.28	14.56	7.19	7.24
180.0	858.57	812.23	750.24	664.94	545.86	252.53	8.70	6.91	7.15
210.0	856.56	809.61	730.75	640.88	506.92	282.50	10.17	6.82	6.69
240.0	855.83	811.60	706.75	578.41	433.95	269.51	20.61	7.73	6.69
270.0	855.02	805.28	694.26	543.81	361.97	165.14	7.51	6.19	6.33
300.0	855.83	808.17	705.58	581.41	432.04	267.79	15.48	7.19	6.42
330.0	857.11	812.14	739.64	648.42	513.73	230.36	8.24	6.73	6.51
360.0	858.57	822.52	770.64	695.27	575.82	262.52	9.07	6.64	6.51
C/γ(°)	135.0	150.0	165.0	180.0					
0.0	6.95	7.74	8.49	8.93					
30.0	7.68	8.29	8.68	8.75					
60.0	7.68	8.29	8.68	8.75					
90.0	7.59	8.29	8.77	8.75					
120.0	7.68	8.29	8.77	8.84					
150.0	7.77	8.38	8.86	8.93					
180.0	7.77	8.47	8.86	8.93					
210.0	7.04	7.74	8.49	8.75					
240.0	7.04	7.74	8.40	8.75					
270.0	6.95	7.74	8.40	8.75					
300.0	6.85	7.65	8.49	8.84					
330.0	6.95	7.74	8.49	8.93					
360.0	6.95	7.74	8.49	8.93					